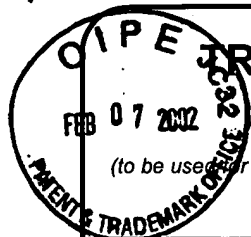


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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application Number	09/868,682
		Filing Date	February 8, 1999
		First Named Inventor	Nichols
		Group Art Unit	
		Examiner Name	
Total Number of Pages in This Submission	1	Attorney Docket Number	05222.00159

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Firm or Individual name	Charles L. Miller Banner & Witcoff, Ltd.
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By: *Tony Harris*  
(person actually depositing)

In the Application of: Nichols

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Serial Number: 09/868,682

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Filing Date: February 8, 1999

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Title: A System, Method and Article of Manufacture for a Goal Based System Utilizing an

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Attorney Docket No. 05222.00159)

In the Application of: )

Nichols, et al. )

Serial No.: 09/868,682 )

Filed: February 8, 1999 )

For: System, Method and Article of )

Manufacture for ..... )

Group Art Unit: n/a

Examiner: n/a

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Washington, D.C. 20231

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Dear Sir:

Pursuant to 37 C.F.R. Section 1.97-1.98, applicants wish to make the following references of record in the above-identified application. These references may be material to the patentability of the presently pending claims. A completed Form -1449 is enclosed. Due to the large number of references and large number of related applications, the Applicant filed a single copy of all of the references in U.S. Patent Application Serial No. 09/219,478 in an Information Disclosure Statement filed February 7, 2002. U.S. Patent Application Serial No. 09/219,478 is assigned to Examiner Ingberg in Group Art Unit 2122.

A Protest under 37 C.F.R. 1.291 was filed in U.S. Patent Application Serial No. 09/219,478. The Applicant is attaching a copy of the Protest, as well as a Response filed in the same application by the Applicant. The prosecution of U.S. Patent Application Serial No. 09/219,478 remains open. The Protest and Response are attached as a courtesy to the Examiner, but are not being listed on the attached Form-1449, because they are not prior art references.

This Information Disclosure Statement is being filed within three months of the application filing date before the mailing of a first Office Action on the merits, accordingly, no fee or separate requirements are required. However, if a fee is due in

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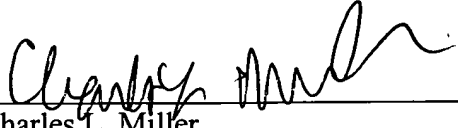
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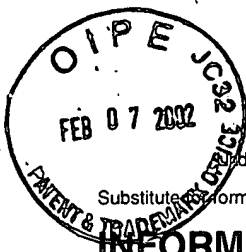
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Respectfully submitted,  
BANNER & WITCOFF, LTD.

Date: February 7, 2002

  
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Charles L. Miller  
Reg. No. 43,805



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Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-4,622,013	11/11/1986	Cherchio	
		US- 4,874,784	10/17/1989	Clancey	
		US- 4,981,766	01/02/1990	Derr, et al.	
		US- 4,931,950	06/05/1990	Isle, et al.	
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		US- 5,002,491	03/26/1991	Abrahamson, et al.	
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		US- 5,189,402	02/23/1993	Naimark, et al.	
		US- 5,208,745	05/04/1993	Quentin, et al.	
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		US- 5,311,422	05/10/1994	Loftin, et al.	
		US- 5,317,688	05/31/1994	Watson, et al.	
		US- 5,326,270	07/05/1994	Ostby, et al.	
		US- 5,359,701	10/25/1994	Chiang, et al.	
		US- 5,372,507	12/13/1994	Goleh	

## FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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		EP 0 689 132 A2	12/27/95	Laffra	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 710 942 A2	05/08/96	Siefert	
		EP 0 798 655 A2	10/01/97	Jervis, et al.	
		WO 00/04478	01/27/00	Jonsson	
		WO 97/44766	11/27/97	Cook	
		WO 98/03953	01/29/98	Simmons	
		WO 98/25251	06/11/98	Ho	
		WO 98/32109	07/23/98	De Lange	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: 2100

Examiner Name: Liza

Attorney Docket Number: 05222.00159

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### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
		"ACM Transactions on Information Systems," 1988 at www.acm.org/pubs/toc/Abstracts/tois/592984.htm	
		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story, 1996.	
		"A Special Section -- Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
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		"DDD--A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
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		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-46, Dec. 1997	
		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

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<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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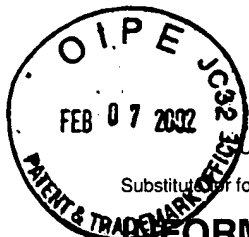
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Application Number : 09/868,682

Filing Dat : 02/08/1999

First Named Inventor: Nichole

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222-00059

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		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
		"KBLPS Overview" at <a href="http://www.cgi.com/CGIWEB/KBLPS/overindex4.html">www.cgi.com/CGIWEB/KBLPS/overindex4.html</a>	
		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 133-141	
		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety, Vol. 63, No. 10, pp 7144-145	
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		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/rtd57.html">http://www.centurionsys.com/rtd57.html</a> , Aug. 1997	
		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a>	
		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 68-74	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682

**Filing Date: 02/08/1999**

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: // 05222.00159

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		Number - Kind Code <sup>2</sup> (if known)			
		US-5,727,950	03/17/1998	Cook, et al.	
		US- 5,745,652	04/28/1998	Bigus	
		US- 5,772,446	06/30/1998	Rosen	
		US- 5,779,468	07/14/1998	Ho, et al.	
		US- 5,788,508	08/04/1998	Lee, et al.	
		US- 5,791,907	08/11/1998	Ramshaw, et al.	
		US- 5,799,151	08/25/1998	Hoffer	
		US- 5,799,292	08/25/1998	Hekmatpour	
		US- 5,806,056	09/08/1998	Hekmatpour	
		US- 5,810,747	09/22/1998	Brudney, et al.	
		US- 5,822,745	10/13/1998	Hekmatpour	
		US- 5,823,781	10/20/1998	Hitchcock, et al.	
		US- 5,823,788	10/20/1998	Lemelson, et al.	
		US- 5,835,683	11/10/1998	Corella, et al.	
		US- 5,868,575	02/09/1999	Kuczewski	
		US- 5,870,768	02/09/1999	Hekmatpour	
		US- 5,875,437	02/23/1999	Atkins	
		US- 5,889,845	03/30/1999	Staples, et al.	
		US- 5,893,123	04/06/1999	Tuinenga	
		US- 5,911,581	06/15/1999	Knight Jeremy, et al.	

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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hot/mcarthur/Papers/aied.html">http://www.rand.org/hot/mcarthur/Papers/aied.html</a>	
		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html</a>	
		"Brainmaker" at <a href="http://www.npiec.on.ca/~echoscan/28-04.htm">www.npiec.on.ca/~echoscan/28-04.htm</a>	
		"News for ESAP" at <a href="http://www.hops.wharton.upenn.edu/~esap/news.html">www.hops.wharton.upenn.edu/~esap/news.html</a>	
		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
		"Microworlds and Simuworlds: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868.682

**Filing Date: 02/08/1999**

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: va  
Attorney Docket Number: 05222.00159

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U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-5,974,446	10/26/1999	Sonnenreich, et al.	
		US- 5,987,443	11/16/1999	Nichols, et al.	
		US- 6,003,021	12/14/1999	Zadik, et al.	
		US- 6,015,348	01/8/2000	Lambright, et al.	
		US- 6,016,486	01/18/2000	Nichols	
		US- 6,018,730	01/25/2000	Nichols, et al.	
		US- 6,018,731	01/25/2000	Bertrand, et al.	
		US- 6,018,732	01/25/2000	Bertrand, et al.	
		US- 6,023,691	02/08/2000	Bertrand et al.	
		US- 6,023,692	02/08/2000	Nichols	
		US- 6,026,386	02/15/2000	Lannert, et al.	
		US- 6,029,156	02/22/2000	Lannert, et al.	
		US- 6,029,158	02/22/2000	Bertrand, et al.	
		US- 6,029,159	02/22/2000	Zorba, et al.	
		US- 6,032,141	02/29/2000	O'Connor, et al.	
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		US- 6,073,127	06/06/2000	Lannert, et al.	
		US- 6,085,184	07/04/2000	Bertrand, et al.	

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		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 307-314, Aug. 1995	
		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1999 Winter Simulation Conference, pp. 1399-1406, Dec. 1999	
		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1179-83, Dec. 1995	
		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

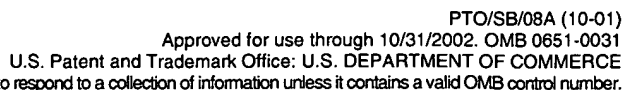
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222-00159

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		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 592-94, Dec. 1997	
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		"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
		"Intelligent Tutoring Systems: An Overview" at <a href="http://www.intellectbooks.com/authors/lawler/its.htm">http://www.intellectbooks.com/authors/lawler/its.htm</a>	

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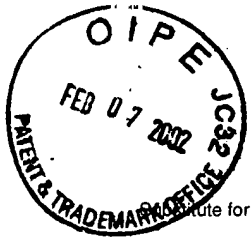
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,682

Filing Date: 02/08/1999

First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222-00159

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		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
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		"Simulation Technology and Parallelism in Learning Environments" at <a href="http://www.to.utwente.nl/prj/min/Book/chapter1.htm">http://www.to.utwente.nl/prj/min/Book/chapter1.htm</a>	

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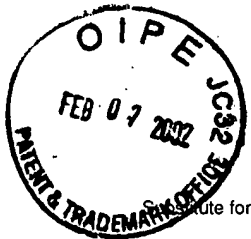
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First Named Inventor: Nichols

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00159

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		"Engines for Education" URL: <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; viewed Feb. 15, 1999.	
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		"Teaching with the internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
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		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
		SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
		"Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a>	

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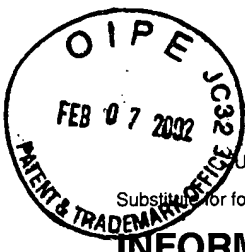
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		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
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		"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/ttdlx.html">http://www.intuit.com/turbotax/prodinfo/ttdlx.html</a>	
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		"Template Software Workflow Simulator, Chapter 8, June 1998	
		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

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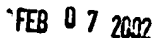
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"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37

"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references

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